

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/009,127	04/29/2002	Kari Pajukoski	870A.0004.U1(US)	5550	
29683 HARRINGTO	7590 07/11/2007 N & SMITH PC	EXAM	EXAMINER		
HARRINGTON & SMITH, PC 4 RESEARCH DRIVE			AHN, S	AHN, SAM K	
SHELTON, CT 06484-6212			ART UNIT	PAPER NUMBER	
			2611		
					
			MAIL DATE	DELIVERY MODE	
			07/11/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

C	K
Ų	ン

	Application No.	Applicant(s)			
Office Action Summers	10/009,127	PAJUKOSKI ET AL.			
Office Action Summary	Examiner	Art Unit			
V	Sam K. Ahn	2611			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status .					
1)⊠ Responsive to communication(s) filed on 27 Ag	oril 2007				
	action is non-final.				
·=	,=				
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) Claim(s) 1-3,5-12,15-18,22-31,33-41,43,44,46-	50 and 52-55 is/are pending in the	ne application.			
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) 1-3,5-12,15-18,22-31,33-41,43,44,46-	50 and 52-55 is/are rejected.				
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9) The specification is objected to by the Examine	7.				
10)⊠ The drawing(s) filed on 29 April 2002 is/are: a)	⊠ accepted or b) objected to	by the Examiner.			
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 					
2. Certified copies of the priority documents	2. Certified copies of the priority documents have been received in Application No				
3. Copies of the certified copies of the prior	3. Copies of the certified copies of the priority documents have been received in this National Stage				
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Do 5) Notice of Informal F				
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atont Application			

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see p.18, filed 04/27/07, with respect to the rejection(s) of claim(s) 1,2,9,10,12,17-21,30,32,37-39,43,44,49,50 and 55 under 103(a) have been fully considered and are persuasive. The rejection has been withdrawn.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1-3,5-12,15-18,22-31,33-41,43,44,46-50 and 52-55 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

In claim 1, the claim appears to recite a method steps of calculating a variance estimate by integrating and subtracting, the equation (3) in page 12 of the instant application. The specification describes that the variance estimate or the interference estimator is calculated by performing the equations of 5 and 6 in page 13 wherein *c* denotes the length of the spreading code of the received control signal, note lines 23-24, page 13, and *m* denotes the length of the shortest code period,

Application/Control Number: 10/009,127

Art Unit: 2611

note lines 1-2, page 12, wherein equations 5 and 6 perform over c/m. However, the claim recites "... calculating a variance estimate...by: integrating said despread sample signal over a spreading code length... integrating a signal corresponding to a power of said despread sample signal over said plurality of spreading code lengths....". From the claim limitations and the description of the specification, clearly the two are not the same. In order to calculate the variance estimate, the function is performed over c/m, and not as recited. Integrating over said spreading code length or said plurality of spreading code lengths are different from integrating over c/m. Therfore, the claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art.

Regarding claim 5, the claim recites "m denotes a number of chips of said predetermined code period" while the specification describes, as also previously explained, m denotes the length of the shortest code period, note lines 1-2, page 12. A number of chips, as recited in the claim is different from length of the shortest code period as explained in the specification. Therefore, the claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art.

Regarding claim 6, the claim recites "m denotes a number of chips of said predetermined code period" while the specification describes, as also previously explained, m denotes the length of the shortest code period, note lines 1-2, page 12.

A number of chips, as recited in the claim is different from length of the shortest code period as explained in the specification. Therefore, the claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art.

Regarding claim 7, the claim recites "m denotes a number of chips of said predetermined code period" while the specification describes, as also previously explained, m denotes the length of the shortest code period, note lines 1-2, page 12. A number of chips, as recited in the claim is different from length of the shortest code period as explained in the specification. Therefore, the claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art.

Regarding claim 8, the claim recites "m denotes a number of chips of said predetermined code period" while the specification describes, as also previously explained, m denotes the length of the shortest code period, note lines 1-2, page 12. A number of chips, as recited in the claim is different from length of the shortest code period as explained in the specification. Therefore, the claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art.

In claim 10, the claim appears to recite a method steps of calculating a variance estimate by integrating and subtracting, the equation (3) in page 12 of the instant application. The specification describes that the variance estimate or the interference estimator is calculated by performing the equations of 5 and 6 in page 13 wherein c denotes the length of the spreading code of the received control signal, note lines 23-24, page 13, and m denotes the length of the shortest code period. note lines 1-2, page 12, wherein equations 5 and 6 perform over c/m. However, the claim recites "... calculating a variance estimate...by: integrating said despread sample signal over a spreading code length... integrating a signal corresponding to a power of said despread sample signal over said plurality of spreading code lengths....". From the claim limitations and the description of the specification, clearly the two are not the same. In order to calculate the variance estimate, the function is performed over c/m, and not as recited. Integrating over said spreading code length or said plurality of spreading code lengths are different from integrating over c/m. Therefore, the claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art.

Claims 2,3,11,12,15-18,22-31,33-41,43,44,46-50 and 52-55 directly or indirectly depend on one of the rejected claims above.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sam Ahn whose telephone number is (571) 272-3044. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sám K. Ahn Patent Examiner

7/5/07